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**Amendments to the Specification:**

Please replace the paragraph at page 16, lines 1-7 with the following rewritten paragraph:

The arrangement 82 provides for a clean-air bounded layer for preferably clean air and is drawn into the sensing region 26. The sensing region 26 forms a boundary layer along the inner side of the flow tube 24, which reduces the deposition of particles in a cavity sensing region 26 and allows the detector ~~14-16~~ to operate for longer periods of time in a high concentration without contamination thereof. A further reduction to minimize the probability of particles sticking to the flow tube 24 in sensing region 26, may be further described with reference to FIG. 10 showing an arrangement 86.